

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/016811

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01F1/34 C04B35/26 G03G9/00 H01F1/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01F C04B G03G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AL X	EP 0 686 886 A (POWDERTECH CO. LTD) 13 December 1995 (1995-12-13) page 2, lines 21-33 page 4, line 45 - page 5, line 20 tables 1-3	1-10
A		11-17
AH X	US 6 090 517 A (TAMURA ET AL) 18 July 2000 (2000-07-18) abstract column 6, lines 40-44 column 14, line 64 - column 15, line 53; tables 6,7,9 column 16, lines 54-59	1-10
AG X	US 5 795 693 A (OKADO ET AL) 18 August 1998 (1998-08-18) abstract column 33, lines 28-64; table 3	1,2,5-9
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

23 May 2005

Date of mailing of the international search report

03/06/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AA X	US 2 576 456 A (HARVEY ROBERT L ET AL) 27 November 1951 (1951-11-27) column 4, line 65 - column 5, line 63 -----	1,2,5
AB X	US 2 977 312 A (GORTER EVERT WILLEM ET AL) 28 March 1961 (1961-03-28) column 3, lines 14-67 column 4, line 42 - column 5, line 14 table 1 -----	1,2,5, 11,12, 15-17
AC X	US 3 770 639 A (OKAZAKI T,JA ET AL) 6 November 1973 (1973-11-06) column 2, lines 29-43 column 2, line 61 - column 3, line 12 table 1 -----	1,2,5
A		13,14
AN A	EP 1 065 191 A (TDK CORPORATION) 3 January 2001 (2001-01-03) paragraphs '0036! - '0038!, '0058! - '0060! -----	11-15
AT A	US 2001/045541 A1 (INOUE SHOJI) 29 November 2001 (2001-11-29) paragraph '0045! -----	11-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/016811

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0686886	A	13-12-1995	JP 3238006 B2	10-12-2001
			JP 7333910 A	22-12-1995
			DE 69505458 D1	26-11-1998
			DE 69505458 T2	02-06-1999
			EP 0686886 A1	13-12-1995
		AD US	5466552 A	14-11-1995
US 6090517	A	18-07-2000	JP 3637457 B2	13-04-2005
			JP 8194339 A	30-07-1996
			JP 3385496 B2	10-03-2003
			JP 8202084 A	09-08-1996
US 5795693	A	18-08-1998	AU 695789 B2	20-08-1998
			AU 2178195 A	04-01-1996
			CA 2151988 A1	23-12-1995
			CN 1116733 A ,C	14-02-1996
			DE 69531915 D1	20-11-2003
			DE 69531915 T2	02-09-2004
			DE 69532929 D1	27-05-2004
			DE 69532929 T2	14-04-2005
			EP 0693712 A1	24-01-1996
			EP 0843225 A2	20-05-1998
			ES 2208661 T3	16-06-2004
			JP 8069131 A	12-03-1996
			KR 172485 B1	30-03-1999
			SG 34236 A1	06-12-1996
US 2576456	A	27-11-1951	NONE	
US 2977312	A	28-03-1961	CH 378214 A	31-05-1964
			DE 1236391 B	09-03-1967
			FR 1187715 A	15-09-1959
			GB 833053 A	21-04-1960
			NL 93511 C	15-02-1960
US 3770639	A	06-11-1973	JP 49026396 B	09-07-1974
			JP 49038918 B	22-10-1974
			JP 49026797 B	11-07-1974
			JP 49026798 B	11-07-1974
			JP 49038919 B	22-10-1974
			JP 49039358 B	24-10-1974
			GB 1331868 A	26-09-1973
EP 1065191	A	03-01-2001	JP 2000340419 A	08-12-2000
			EP 1065191 A1	03-01-2001
		AT US	6309558 B1	30-10-2001
			CN 1288451 A ,C	21-03-2001
			WO 0031000 A1	02-06-2000
US 2001045541	A1	29-11-2001	JP 2001085217 A	30-03-2001
			CN 1322364 A	14-11-2001
			DE 10083302 T0	21-03-2002
			WO 0122440 A1	29-03-2001
			TW 516048 B	01-01-2003

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